IN THE CLAIMS:

Please amend the claims as follows:

1-17. (Canceled)

18. (Previously Presented) The method of claim 26, wherein there are at least 1000 heterogenous nucleic acid sequences inserted into the viral expression vectors.

19. (Previously Presented) The method of claim 26, wherein there are at least 10,000 heterogenous nucleic acid sequences inserted into the viral expression vectors.

20. (Previously Presented) The method of claim 26, wherein there are at least 35,000 heterogenous nucleic acid sequences inserted into the viral expression vectors.

21. (Previously Presented) The method of claim 26, wherein the viral expression vectors are retroviral vectors.

22. (Previously Presented) The method of claim 21, wherein the retroviral vectors are lentiviral vectors.

23. (Previously Presented) The method of claim 26, wherein the effector sequences code for cDNAs, siRNAs, peptides or protein domains.

24. (Previously Presented) The method of claim 26, wherein the effector sequences code for siRNAs.

25. (Previously Presented) The method of claim 26, wherein the effector sequences code for peptides.

26. (Previously Presented) A method for making a packaged viral effector library, comprising:

cloning a defined set of nucleic acid sequences into viral expression vectors to produce a library of effector constructs, wherein the defined set of nucleic acid sequences comprises at least 100 different effector sequences and is made by a method comprising:

synthesizing a set of nucleic acid sequences on a surface of a microarray, wherein each nucleic acid sequence has a specific sequence and is synthesized in a specific location of said surface;

detaching the set of nucleic acid sequences from the microarray; and

amplifying the detached set of nucleic acid sequences by polymerase chain reaction, thereby generating the defined set of nucleic acid sequences; and

packaging the library of effector constructs into viral particles to produce a viral effector library.

27. (Previously Presented) A method for making a viral effector library, comprising:

synthesizing a set of at least 100 different effector nucleic acid sequences on a surface of a microarray, wherein each nucleic acid sequence has a specific sequence and is synthesized in a specific location of said surface;

detaching the set of nucleic acid sequences from the microarray;

amplifying the detached set of nucleic acid sequences by polymerase chain reaction, thereby generating a defined set of nucleic acid sequences; and

cloning the defined set of nucleic acid sequences into viral expression vectors to produce a library of effector constructs.

28. (Previously Presented) The method claim 27, further comprising packaging the library of effector constructs into viral particles to produce a viral effector library.

29. (Canceled)